

School of Computer Science and Engineering

J Component report

Programme

: B.Tech CSE

Course Title

: Internet And Web Programming

Course Code

: CSE3002

Slot

: F1

Title

: Edpoint

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Abstract

This project aims to provide a one stop solution for the students by providing basic tools for students a discussion forum study materials tutorial videos a chat feature and a virtual assistant which helps students to find what they need. This platform will be very helpful for students as they will get all their requirements under one space. The website will also enable students to learn efficiently with no hassle.

Tools Used

Below listed are the tools used in the project:

1) Firebase:

It is a NoSQL Backend-As-A-Service (BAAS), that allows users to connect that projects and set-up backend services such as Authentication, Cloud storage, Realtime analytics, Database management etc.

It has been used in our project to implement Authentication and Cloud Storage for the files.

2) HTML:

HTML (HyperText Markup Language) is the code that is used to structure a web page and its content. For example, content could be structured within a set of paragraphs, a list of bulleted points, or using images and data tables. It is the basic skeleton one uses when designing the front-end of their project.

It has been used to give structure to all the web-pages in our project.

3) CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. They are descriptive codes used to describe how a webpage should look like. It is used to decorate the front-end.

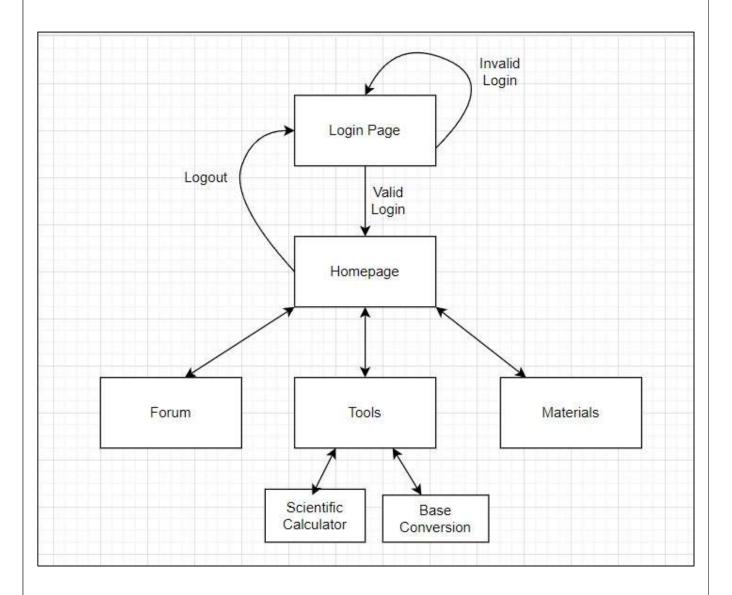
It has been used to format the various elements of the webpage.

4) JavaScript:

JavaScript is a scripting or programming language that allows you to implement complex features on web pages. It is a scripting language that enables you to create dynamically updating content, control multimedia, animate images etc. It is used to code the logic of the front end as well as convert a static page into a dynamic page.

It has been used to write the logic of various dynamic elements of the page such as the logic of the assistant, of the calculator, various tools etc.

Block Diagram



Project Modules

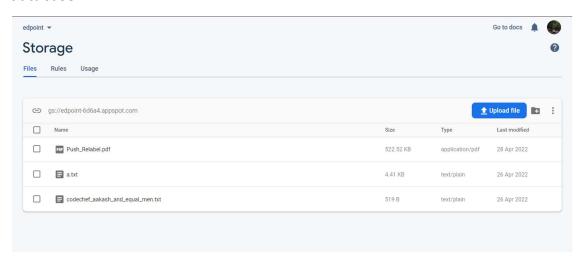
- <u>Homepage:</u> This is the page where users are provided with options to navigate in the website.
- <u>Authentication:</u> This module take care about the verification part and allows the user to access the website.
- AI chat bot: This bot will be present in every page of the website and assist the user if they have an issue.
- Forum: It is a panel for open discussion.
- <u>Tools:</u> Users can access basic computational tools like scientific calculator, base converter.
- <u>Materials:</u> In this module the users can access the study materials which will be in the form of videos, images, files and links.

Code Features

Below Stated are some of the code features of the project:

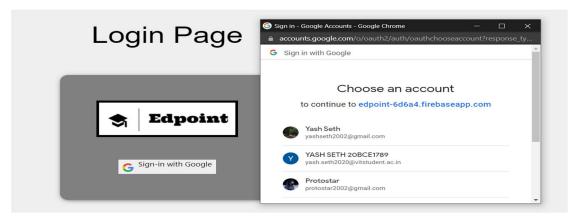
1) Database:

The database used for the project is Firebase. It is a NoSQL document-based database. Thus, there is not a schema and it allows for querying of data. It can be accessed using the Firebase console. Below is an image to display the database:



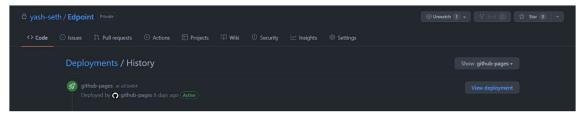
2) Authentication:

The authentication used in the project is a Firebase backend service. It provides a login portal which allows users to login onto our platform if they have a valid Google account. Below is an image to depict the login:



3) Hosting:

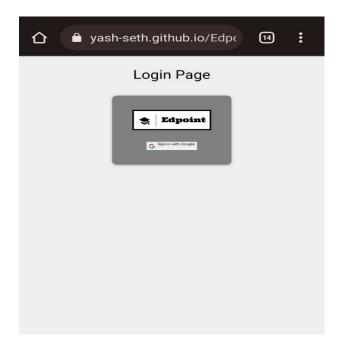
The platform has been hosted using Github pages. This allows the platform to be accessible from anywhere in the world on any device.



4) Responsive Design:

The front-end has been developed in a manner that allows the content to be viewed properly irrespective of window size and device it is being viewed on.

Below is an image of the website being accessed on a mobile device:



Sample Codes

Login Page:

Homepage:

Forum:

Forum - logic:

Tools:

Scientific Calculator:

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```

Base Conversion Tools (1 of 4):

Materials:

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cdiv class="col-sm-12" style="margin-top: 10px;">
cdiv class="card-body">
cdiv class="card-body">
cdiv class="card-body">
cdiv class="card-body">
cdiv class="card-body">
cdiv class="col-sm-12" style="margin-top: 10px;">
cdiv class="card-body">
cdiv cl
```

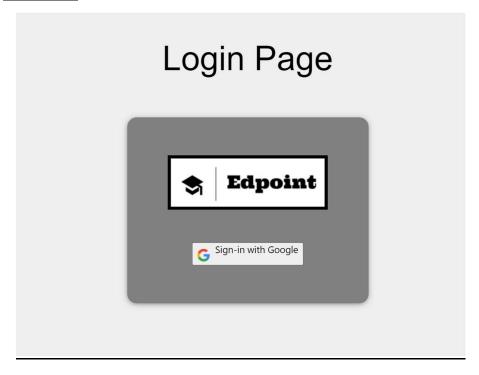
Backend Configuration:

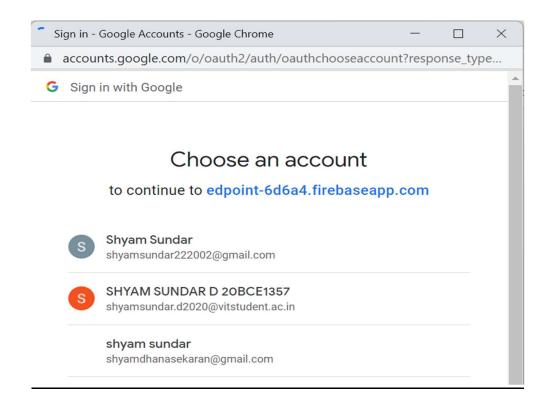
```
### Supply ---

| Const firebaseConfig = {
| apikey: "Atzayonggukusiyothukyoshtojde9stAnda",
| apikey: "Atzayongukusiyothukyoshtojde9stAnda",
| apikey: "Atzayonggukusiyothukyothukyoshtojde9stAnda",
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```

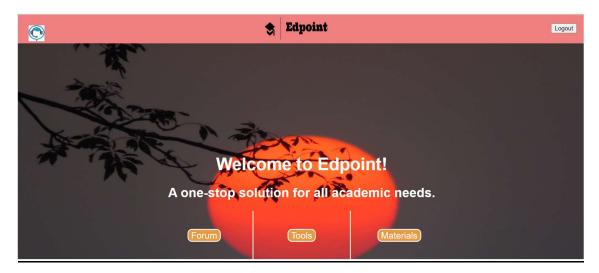
Output Screen

• LOGIN PAGE:

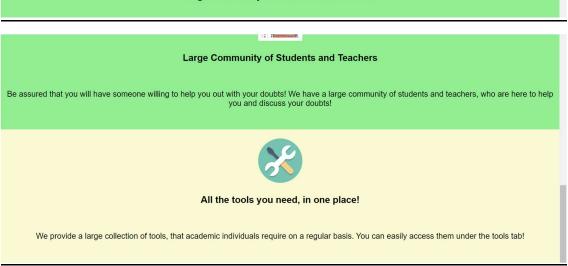




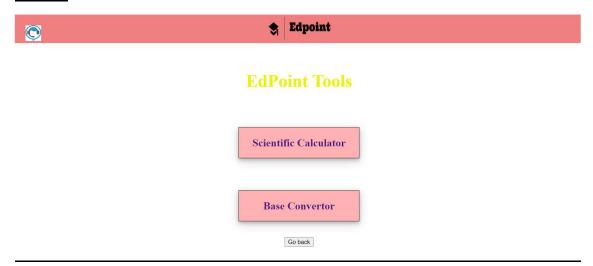
HOME PAGE:







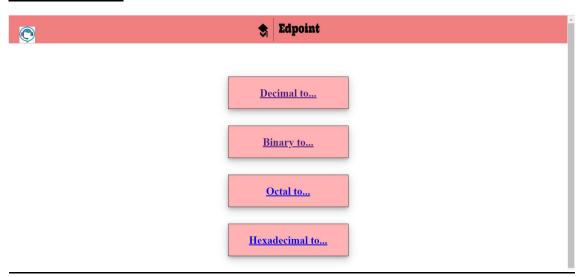
TOOLS:

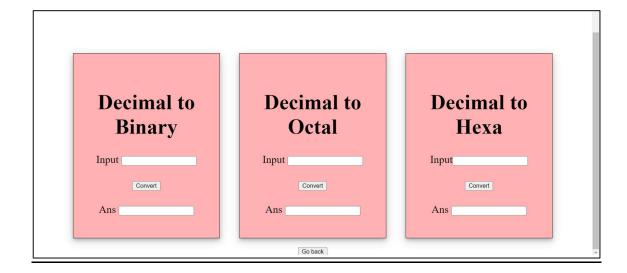


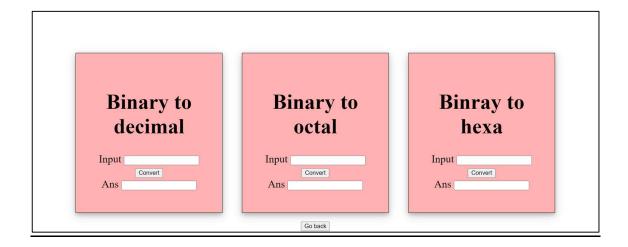
Scientific calculator:

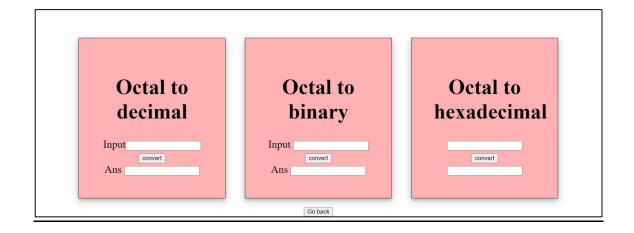


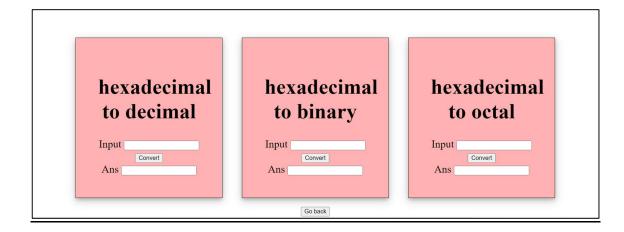
Base convertor:



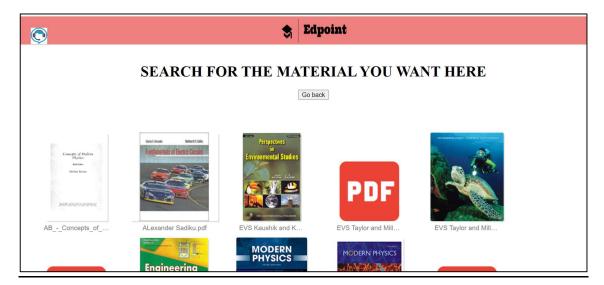








MATERIALS:

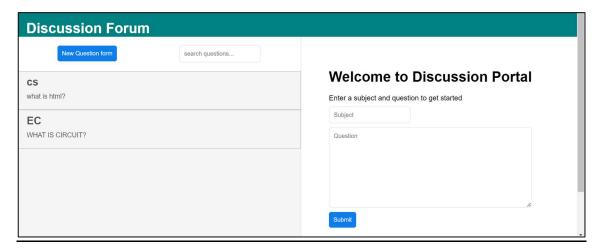




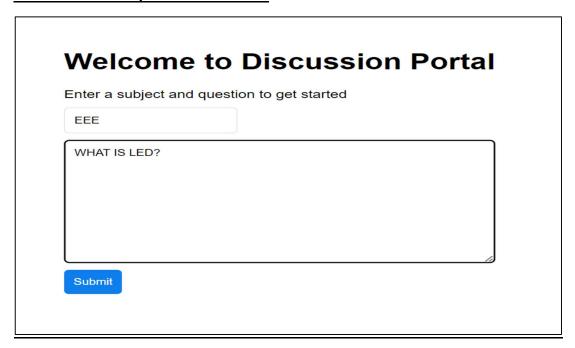
To upload materials by the user:

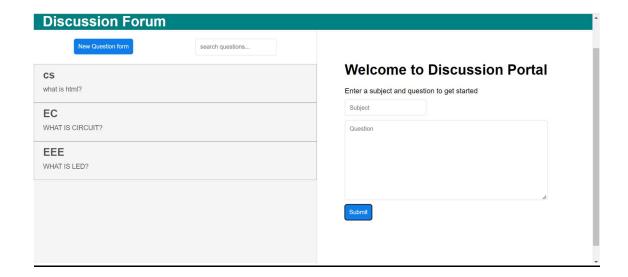


FORUM:

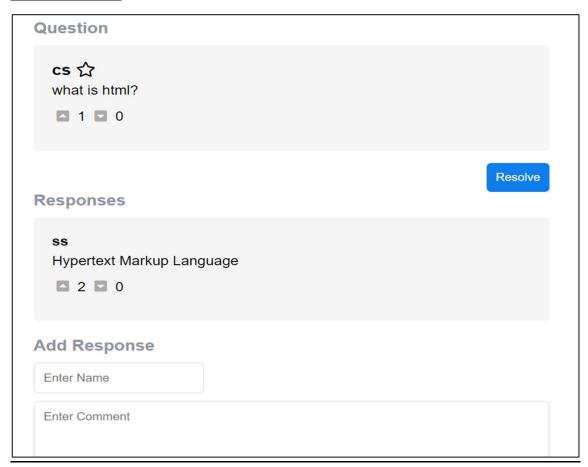


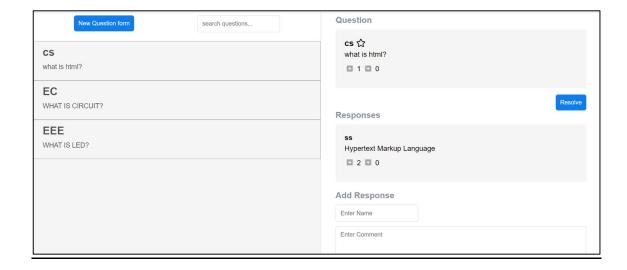
To create a new question in forum:





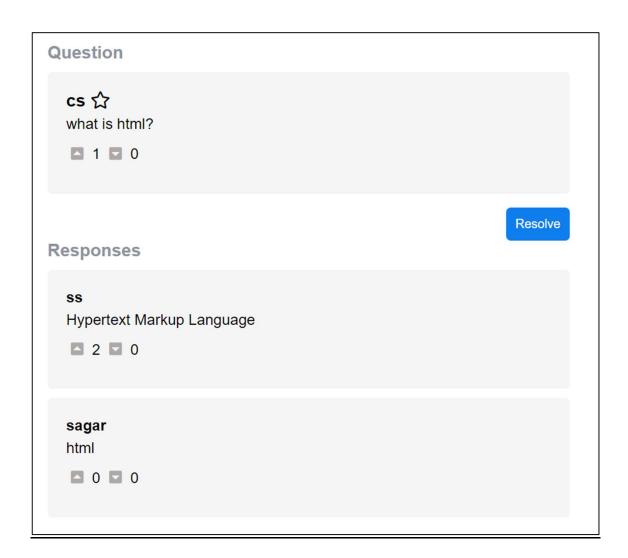
Question page:



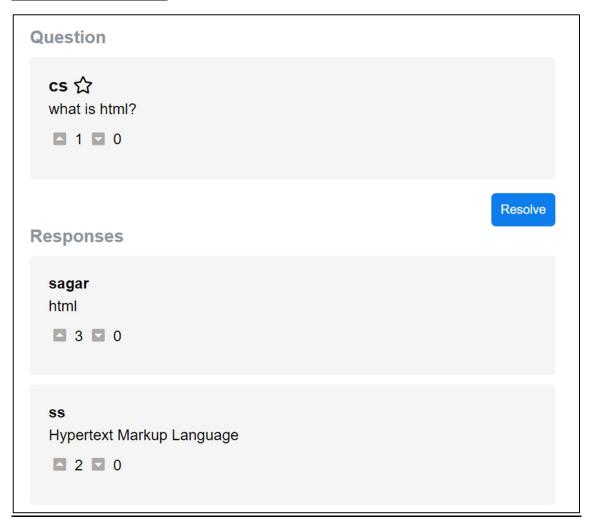


To add response:

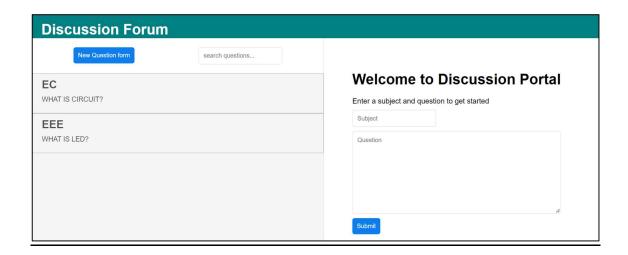




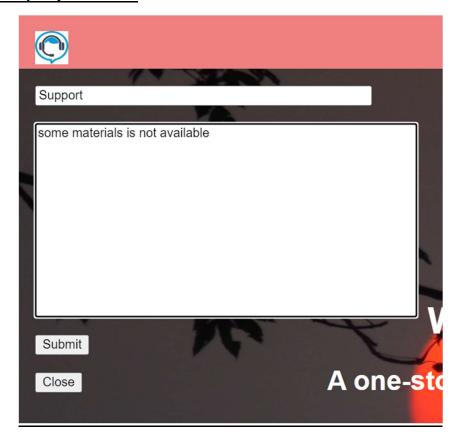
Upvotes/Downvotes:



To resolve a question:



To send a query to admin:



yash-seth.github.io says

We have received your query! Check your email after some time for a response from our staff!

